What is claimed is:

An information storage system comprising:
an information storage medium;

at least one read/write head comprising a transducer for information introduction and/or retrieval from the information storage medium; and

an actuator supporting at least one read/write head for moving the transducer relative to the information storage medium;

wherein the information storage medium has a composite nickel coating thereon including an electrolessly deposited nickel layer formed on a sputter deposited nickel layer.

- 2. The information storage system of claim 1 wherein the sputter deposited nickel layer comprises nickel-phosphorus.
- 3. The information storage system of claim 1 wherein the electrolessly deposited nickel layer comprises nickel-phosphorus.
- 4. The information storage system of claim 1 wherein the sputter deposited nickel layer has a thickness in a range of about 10 Å to about 1000 Å.
- 5. The information storage system of claim 1 wherein the electrolessly deposited nickel layer has a thickness in a range of about 0.5 microns to about 10 microns.
- 6. The information storage system of claim 1 wherein the composite nickel coating has a surface roughness (Ra) less than about 10 Å.
- 7. An information storage medium for use in an information storage system, comprising:

a disk having a composite nickel coating including an electrolessly deposited nickel layer formed on a sputter deposited nickel layer thereon.

- 8. The information storage medium of claim 7 wherein the sputter deposited nickel layer comprises nickel-phosphorus.
- 9. The information storage medium of claim 7 wherein the electrolessly deposited nickel layer comprises nickel-phosphorus.
- 10. The information storage medium of claim 7 wherein the sputter deposited nickel layer has a thickness in a range of about 10 Å to about 1000 Å.
- 11. The information storage medium of claim 7 wherein the electrolessly deposited nickel layer has a thickness in a range of about 0.5 microns to about 10 microns.
- 12. The information storage medium of claim 7 wherein the composite nickel coating has a surface roughness (Ra) less than about 10 Å.
- 13. A method of forming an information storage medium for use in an information storage system, comprising :
 - (a) sputtering a nickel layer on a disk; and
 - (b) electrolessly depositing a nickel layer on the sputtered nickel layer.
- 14. The method of claim 13 wherein the sputtered nickel layer comprises nickel-phosphorus.
- 15. The method of claim 13 wherein the sputtered nickel layer has a thickness in a range of about 10 Å to about 1000 Å.
- 16. The method of claim 13 wherein the electrolessly deposited nickel layer comprises nickel-phosphorus.
- 17. The method of claim 13 wherein the electrolessly deposited nickel layer has a thickness in a range of about 0.5 microns to about 10 microns.

- 18. The method of claim 13 wherein the nickel coating formed on the disk has a surface roughness (Ra) less than about 10 Å.
- 19. The method of claim 13 further comprising:
 - (c) depositing an underlayer on the nickel coating; and
- (d) depositing a magnetic layer on the underlayer to form a magnetic recording medium.
- 20. The method of claim 13 further comprising depositing at least one zincate coating on the disk prior to the formation of the nickel coating thereon.